10/29/13 - Homework:
- 3.1 p. 168-170 (8-38 evens, 44-50 evens, 60)

Write an inequality that represents each verbal expression. See Problem 1.

8. v is greater than or equal to 5.

9. b is less than 4.

10. 3 less than g is less than or equal to 17.

11. The quotient of k and 9 is greater than $\frac{1}{3}$.

Determine whether each number is a solution of the given inequality. See Problem 2.

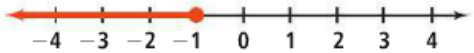
12. $3y - 8 > 22$	**a.** 2	**b.** 0	**c.** 5
13. $8m - 6 \leq 10$	**a.** 2	**b.** 3	**c.** -1
14. $4x + 2 < -6$	**a.** 0	**b.** -2	**c.** 1
15. $\frac{6 - n}{n} \geq 11$	**a.** 0.5	**b.** 2	**c.** 4
16. $m(m - 3) < 54$	**a.** -10	**b.** 0	**c.** 9

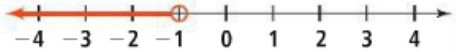
Match each inequality with its graph. See Problem 3.

17. $x < -1$ **18.** $x \geq -1$ **19.** $-1 < x$ **20.** $-1 \geq x$

A. 

B. 

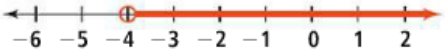
C. 

D. 

Graph each inequality.

21. $y > 2$	**22.** $t < -4$	**23.** $z \leq -5$	**24.** $v \geq -2$
25. $-3 < f$	**26.** $-\frac{9}{4} \leq c$	**27.** $8 \geq b$	**28.** $5.75 > d$

Write an inequality for each graph. See Problem 4.

29. 

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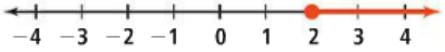
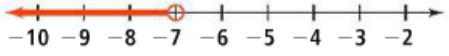
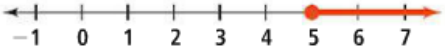
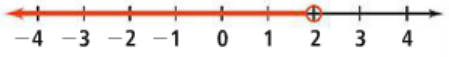
31. 

32. 

33. 

34. 

Define a variable and write an inequality to model each situation. See Problem 5.

35. The restaurant can seat at most 172 people.

36. A person must be at least 35 years old to be elected President of the United States.

37. A light bulb can be no more than 75 watts to be safely used in this light fixture.

38. At least 475 students attended the orchestra concert Thursday night.

39. A law clerk has earned more than $20,000 since being hired.

Write each inequality in words.

44. $n < 5$

45. $b > 0$

46. $7 \geq x$

47. $z \geq 25.6$

48. $4 > q$

49. $21 \geq m$

50. $35 \geq w$

51. $g - 2 < 7$

52. $a \leq 3$

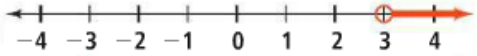
53. $6 + r > -2$

54. $8 \leq h$

55. $1.2 > k$

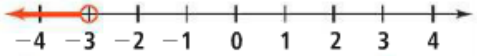
60. Reasoning Which is the correct graph of $-3 < -x$? Explain.

A



B

C



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